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Notice of Allowability	Application No.	Applicant(s)	
	09/914,092	HENDRIKS ET AL.	
	Examiner	Art Unit	
	Michael V Battaglia	2652	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <i>November 12, 2004</i> .			
2. The allowed claim(s) is/are 1-20 (now renumbered as 1-7,11-17,8-10 and 18-20 respectively).			
3. The drawings filed on 02 April 2004 are accepted by the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. 			
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
 hereto or 2) to Paper No./Mail Date including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of 			
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail Dat 08), 7. ⊠ Examiner's Amendn	e nent/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	nt of Reasons for Allowance	

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael E. Belk on January 27, 2005.

The application has been amended as follows:

- a. On line 11 of claim 1 and line 10 of claim 8, "consistent" has been changed to -constant--.
- b. On line 9 of claim 8, "each the" has been changed to -each of the-.

Allowable Subject Matter

2. Claims 1-20 are allowable over the prior art of record. In regard to claim 1, none of the references of record alone or in combination disclose or suggest an optical head for scanning an optical record carrier having an information layer, the head comprising a radiation source for generating a radiation beam, an optical system for converging the radiation beam to a focus on the information layer along an optical axis, the optical system imparting a temperature-dependent first wavefront deviation to the radiation beam, and a compensator arranged in the radiation beam for compensating the first wavefront deviation, characterised in that the compensator comprises a phase structure of a material having temperature-dependent properties, the phase structure having the form of a plurality of annular areas forming a non-periodic pattern of optical paths of different, temperature-dependent lengths, the optical paths forming a second wavefront deviation

compensating the temperature-dependent first wavefront deviation, wherein each of the annular areas has a width measured radially from the optical axis and a constant height along the width measured along the optical axis.

In regard to claim 8, none of the references of record alone or in combination disclose or suggest an optical system comprising an optical element and a compensator, the optical element being arranged in the path of a radiation beam along an optical axis and imparting a temperature-dependent first wavefront deviation to the radiation beam, the compensator being arranged in the path of the radiation beam for compensating the first wavefront deviation, characterized in that the compensator comprises a phase structure of a material having temperature-dependent properties, the phase structure having the form of a plurality of annular areas forming a non-periodic pattern of optical paths of different, temperature-dependent lengths, the optical paths forming a second wavefront deviation compensating the temperature-dependent first wavefront deviation, wherein each of the annular areas has a width measured radially from the optical axis and a constant height along the width measured along the optical axis.

It is noted that the claims 1 and 8 are allowable over the prior art used to make 35 U.S.C. 102 rejections in the previous Office action, Maruyama (US 6,191,889) and Nakai et al (hereafter Nakai) (US 6,590,708), because the claimed phase structure can no longer be broadly interpreted to read on the saw tooth shaped type phase structure that both Maruyama and Nakai use.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V Battaglia whose telephone number is (703) 305-4534. The examiner can normally be reached on 5-4/9 Plan with 1st Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T Nguyen can be reached on (703) 305-9687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Battaglia

HOALT. NGUYEN

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